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1 [Response to "Problems with DCE security services"](#)



Walter Tuvell

April 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [index terms](#)

2 [Role-based access control on the web](#)



Joon S. Park, Ravi Sandhu, Gail-Joon Ahn

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(331.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

**Keywords:** WWW security, cookies, digital certificates, role-based access control

3 [Session 2: secure Web services: UDDI and WSDL extensions for Web service: a security framework](#)



Carlisle Adams, Sharon Boeyen

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

**Publisher:** ACM Press

Full text available: [pdf\(91.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

This paper outlines a framework for implementing security for Web Services by extending UDDI and WSDL. The framework includes security of UDDI itself, security of Web services

transactions, and linkages with existing infrastructures outside UDDI. Extensions to the schema for both UDDI and WSDL are identified, as well as extensions to the security of the publication and discovery mechanism itself.

**Keywords:** UDDI, WSDL, XML schema, security, standards

4 Certificate-based authorization policy in a PKI environment



Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai  
November 2003 **ACM Transactions on Information and System Security (TISSEC)**,  
Volume 6 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(233.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

**Keywords:** Public key infrastructure, XML, digital certificates

5 National id card: the next generation: The US/Mexico border crossing card (BCC): a case study in biometric, machine-readable id



Andrew Schulman  
April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**

**Publisher:** ACM Press

Full text available: [htm\(187.31 KB\)](#) Additional Information: [full citation](#), [index terms](#)

6 Fast detection of communication patterns in distributed executions



Thomas Kunz, Michiel F. H. Seuren  
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

**Publisher:** IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

7 Secure routing and firewall: Identity-based registry for secure interdomain routing



E-yong Kim, Klara Nahrstedt, Li Xiao, Kunsoo Park  
March 2006 **Proceedings of the 2006 ACM Symposium on Information, computer and communications security ASIACCS '06**

**Publisher:** ACM Press

Full text available: [pdf\(320.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The current Internet has no secure way to validate the correctness of the routing

information. We suggest a mechanism that supports secure validation of routing information in the interdomain routing protocol of the Internet. Our mechanism focuses on alleviating obstacles which previously prevent the complete and correct construction of the Internet routing information. In particular, we propose an *identity-based Registry with Authorized and Verifiable Search* (RAVS) so that routing inform ...

**Keywords:** authorized search, identity-based registry, verifiable search

## 8 Public-key support for group collaboration



Carl Ellison, Steve Dohrmann

November 2003 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 6 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(561.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper characterizes the security of group collaboration as being a product not merely of cryptographic algorithms and coding practices, but also of the man-machine process of group creation. We show that traditional security mechanisms do not properly address the needs of a secured collaboration and present a research prototype, called NGC (next generation collaboration), that was designed to meet those needs. NGC distinguishes itself in the care with which the man-machine process was analy ...

**Keywords:** Human-computer interface, IPsec, PGP, PKI, S/MIME, SDSI, SPKI, SSH

## 9 Access control: First experiences using XACML for access control in distributed systems



Markus Lorch, Seth Proctor, Rebekah Lepro, Dennis Kafura, Sumit Shah

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

**Publisher:** ACM Press

Full text available: [pdf\(459.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Authorization systems today are increasingly complex. They span domains of administration, rely on many different authentication sources, and manage permissions that can be as complex as the system itself. Worse still, while there are many standards that define authentication mechanisms, the standards that address authorization are less well defined and tend to work only within homogeneous systems. This paper presents XACML, a standard access control language, as one component of a distributed a ...

**Keywords:** access control decision, access control enforcement, authorization, distributed system security, policy language, policy management

## 10 A survey and analysis of Electronic Healthcare Record standards



Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci

December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(844.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

**Keywords:** Electronic Healthcare Record standards, eHealth, interoperability

11 Integration of DCE and local registries: design approaches



Ping Lin, Sekar Chandrasekaran

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**

**Publisher:** ACM Press

Full text available: pdf(470.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When DCE is implemented on an existing operating system platform, its security facilities need to be integrated with the local security facilities on that platform. One key task in this effort is the integration of the DCE registry and the local security registry. This paper discusses the requirement for registry integration, and considers alternative approaches to a number of major structural issues that arise when integrating the DCE registry with local registries, including: < ...

12 Attribute certification: an enabling technology for delegation and role-based controls in distributed environments



John Linn, Magnus Nyström

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

**Publisher:** ACM Press

Full text available: pdf(1.04 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 SPV: secure path vector routing for securing BGP



Yih-Chun Hu, Adrian Perrig, Marvin Sirbu

August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4

**Publisher:** ACM Press

Full text available: pdf(236.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As our economy and critical infrastructure increasingly relies on the Internet, the insecurity of the underlying border gateway routing protocol (BGP) stands out as the Achilles heel. Recent misconfigurations and attacks have demonstrated the brittleness of BGP. Securing BGP has become a priority. In this paper, we focus on a viable deployment path to secure BGP. We analyze security requirements, and consider tradeoffs of mechanisms that achieve the requirements. In particular, we study how to se ...

**Keywords:** BGP, Border Gateway Protocol, interdomain routing, routing, security

14 Grapevine: an exercise in distributed computing



Andrew D. Birrell, Roy Levin, Michael D. Schroeder, Roger M. Needham

April 1982 **Communications of the ACM**, Volume 25 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.71 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Grapevine is a multicomputer system on the Xerox research internet. It provides facilities for the delivery of digital messages such as computer mail; for naming people, machines, and services; for authenticating people and machines; and for locating services on the internet. This paper has two goals: to describe the system itself and to serve as a case study of a real application of distributed computing. Part I describes the set of services

provided by Grapevine and how its data and funct ...


15 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining



Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(341.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

**Keywords:** Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability



16 Invited papers on the frontiers of software practice: Cybersecurity



Richard A. Kemmerer

May 2003 **Proceedings of the 25th International Conference on Software Engineering**


**Publisher:** IEEE Computer Society

Full text available:  [pdf\(1.17 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)  
[Publisher Site](#)

As more business activities are being automated and an increasing number of computers are being used to store sensitive information, the need for secure computer systems becomes more apparent. This need is even more apparent as systems and applications are being distributed and accessed via an insecure network, such as the Internet. The Internet itself has become critical for governments, companies, financial institutions, and millions of everyday users. Networks of computers support a multitude ...


17 Access control with IBM Tivoli access manager



 Günter Karjoth

May 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(367.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated with its operating processes. As this transformation takes place, security grows in importance. IBM Tivoli Access Manager offers a shared infrastructure for authentication and access management, technologies that have begun to emerge in the com ...

**Keywords:** Access control, WWW security, Web servers, authorization management

18 RBAC on the Web by smart certificates



Joon S. Park, Ravi Sandhu

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**



**Publisher:** ACM Press

Full text available: pdf(867.12 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**19** Identification and authentication when users have multiple accounts



W. R. Shockley

August 1993 **Proceedings on the 1992-1993 workshop on New security paradigms**

**Publisher:** ACM Press

Full text available: pdf(788.71 KB) Additional Information: [full citation](#), [references](#)

**20** Privacy in browser-based attribute exchange



Birgit Pfitzmann, Michael Waidner

November 2002 **Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society**

**Publisher:** ACM Press

Full text available: pdf(168.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Browser-based attribute-exchange protocols enable users of normal web browsers to conveniently send attributes, such as authentication or demographic data, to web sites. Such protocols might become very common and almost mandatory in general consumer scenarios over the next few years. We derive the privacy requirements on such protocols from general privacy principles and study their consequences for the protocol design. We also survey to what extent proposals like Microsoft's Passport, IBM's e- ...

**Keywords:** BBAE, Liberty, Passport, SAML, Shibboleth, attribute-exchange, e-Community Single Signon, identity management, privacy, roles, security, single signon, traffic data, wallet, web browser

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L3	0	(secure registry).clm. (registry key).clm. identification.clm. decrypt\$4.clm. regenerat\$4.clm. (another key).clm. (current).clm. authorized.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/27 15:00
S1	6	("6286103" "6005938" "6002772").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/30 10:42
S3	929	((encrypt\$3 or encipher\$3 or scrambl\$3) near3 key) same (copyright or "copy protection")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/30 10:48
S4	40	S3 and 380/277.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/30 10:49
S5	794	((encrypt\$3 or encipher\$3 or scrambl\$3) adj4 key) same (copyright or "copy protection")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/30 10:48
S6	38	S5 and 380/277.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/30 10:49
S8	15	(content or data or information) with ((encrypted or enciphered or ciphered or scrambled) adj key) with (copyright or "content protection" or "digital management")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/30 13:25
S9	1	"09674441"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/30 14:38

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S11	0	380/277.ccls. and ("copyright protection" or rights "digital management") with ((ident\$5 or PID or ID or "serial number") with authentication)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/30 14:40
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S13	4	380/277.ccls. and ("copyright protection" or rights "digital management") same ((ident\$5 or PID or ID or "serial number") with authentication)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/30 14:43
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S16	10	380/277.ccls. and ("content data" or "data packet" or "data block" or "stream") with ((ident\$5 or "user ID" or PID or ID or "serial number") with (compar\$3 or match\$3 or authentication))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 05:43
S17	0	380/277.ccls. and (copyright or "digital managemetn") with ((ident\$5 or "user ID" or PID or ID or "serial number") with (compar\$3 or match\$3 or authentication))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 05:43
S18	1	380/277.ccls. and (copyright or "digital managemetn") same ((ident\$5 or "user ID" or PID or ID or "serial number") with (compar\$3 or match\$3 or authentication))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 05:44
S19	34	380/277.ccls. and (copyright or "digital managemetn") and ((ident\$5 or "user ID" or PID or ID or "serial number") with (compar\$3 or match\$3 or authentication))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 06:20



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S20	138	380/277.ccls. and ("public key encryption")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 06:20
S21	19	380/277.ccls. and (copyright or "digital management") and ("public key encryption")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 06:55
S22	34	380/277.ccls. and (copyright or "digital management") and (mpeg\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/31 06:55
S23	1116	380/277.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 14:11
S25	2	(periodic\$6 or (interval)) same (key near4 generat\$6) same ((identifier or identification or "serial number" or "device name" or "ID" or biometric or (finger\$1print) or iris or pupil or "credit card") near6 seed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 14:38
S26	2	(periodic\$6 or (interval)) same (key near4 generat\$6) same ((identifier or identification or "serial number" or "device name" or "ID" or biometric or (finger\$1print) or iris or pupil or "credit card") near10 seed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 16:00
S27	2	(periodic\$6 or (interval)) same (key near4 generat\$6) same ((identifier or identification or "serial number" or "device name" or "ID" or biometric or (finger\$1print) or iris or pupil or "credit card") near10 ("initial value" or random\$1number or RAND or seed))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 14:39
S28	16	(periodic\$6 or (interval)) same (key near4 generat\$6) same ((identifier or identification or "serial number" or "device name" or "ID" or biometric or (finger\$1print) or iris or pupil or "credit card") same ("initial value" or random\$1number or RAND or seed))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 15:50

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S30	112	(periodic\$6 or (interval)) same (key near4 generat\$6) same ("initial value" or random\$1number or RAND or seed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 15:51
S31	112	((periodic\$6 or (interval)) same (key near4 generat\$6) same ("initial value" or random\$1number or RAND or seed))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 15:53
S32	3	(periodic\$6 or (interval)) same (key near4 generat\$6) same (license server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 15:53
S33	326	(periodic\$6 or (interval)) same (key near4 generat\$6) same ((identifier or identification or "serial number" or "device name" or "ID" or biometric or (finger\$1print) or iris or pupil or "credit card"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 16:06
S34	0	(periodic\$6 or (interval)) same (key near4 generat\$6) same ((identifier or identification or "serial number" or "device name" or "ID" or biometric or (finger\$1print) or iris or pupil or "credit card")) same "license server"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 16:00
S35	35	(periodic\$6 or (interval)) same (key near4 generat\$6) same ((identifier or identification or "serial number" or "device name" or "ID" or biometric or (finger\$1print) or iris or pupil or "credit card")) and "license server"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 16:01
S36	109	(periodic\$6 or (interval)) same (key near4 generat\$6) near9 ((identifier or identification or "serial number" or "device name" or "ID" or biometric or (finger\$1print) or iris or pupil or "credit card"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 16:20

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S38	0	(periodic\$6 or (interval)) same (key near4 generat\$6) near9 ((identifier or identification or "serial number" or "device name" or "ID" or biometric or (finger\$1print) or iris or pupil or "credit card")) and "license server"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/25 16:23
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S43	2	"4933971".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/27 14:56